wo200100845/pn

L1 ANSWER 1 OF 1 WPINDEX COPYRIGHT 2003 THOMSON DERWENT on STN
ACCESSION NUMBER: 2001-212085 [22] WPINDEX
DOC. NO. CPI: C2001-063386
TITLE: New Corynebacterium glutamicum GTP cyclohydrolase I, dihydropteroate synthase, dihydroneopterin aldolase and 2-amino-4-hydroxy-6-hydroxymethyl-dihydropteridine pyrophosphokinase polypeptides.
DERWENT CLASS: D13 D16 E13
INVENTOR(S): HERBSTER, K; MACK, M
PATENT ASSIGNEE(S): (BADI) BASF-LYNX BIOSCIENCE AG; (AXAR-N) AXARON BIOSCIENCE AG
COUNTRY COUNT: 95
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC	
DE 19929363	A1	20001228	(200122)*		7	C07K014-34	
WO 2001000845	A1	20010104	(200122)	GE		C12N015-52	<--
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW							
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW							
AU 2000059782	A	20010131	(200124)			C12N015-52	
EP 1194565	A1	20020410	(200232)	GE		C12N015-52	
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI							
KR 2002026469	A	20020410	(200267)			C07K014-34	
CN 1371418	A	20020925	(200305)			C12N015-52	
ZA 2002000582	A	20030326	(200327)		24	C12N000-00	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 19929363	A1	DE 1999-19929363	19990625
WO 2001000845	A1	WO 2000-EP5864	20000623
AU 2000059782	A	AU 2000-59782	20000623
EP 1194565	A1	EP 2000-945815	20000623
		WO 2000-EP5864	20000623
KR 2002026469	A	KR 2001-716565	20011224
CN 1371418	A	CN 2000-812014	20000623
ZA 2002000582	A	ZA 2002-582	20020123

FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 2000059782	A	Based on	WO 2001000845
EP 1194565	A1	Based on	WO 2001000845

PRIORITY APPLN. INFO: DE 1999-19929363 19990625
INT. PATENT CLASSIF.:
MAIN: C07K014-34; C12N000-00; C12N015-52

SECONDARY: C12N001-21; C12N009-10; C12N009-12; C12N009-78; C12N009-88; C12N015-77; C12P017-18

BASIC ABSTRACT:

DE 19929363 A UPAB: 20010421

NOVELTY - Corynebacterium glutamicum GTP cyclohydrolase I, dihydropteroate synthase, dihydroneopterin aldolase and 2-amino-4-hydroxy-6-hydroxymethyl-dihydropteridine pyrophosphokinase polypeptides, are new.

DETAILED DESCRIPTION - The following polypeptides are new:

(i) a polypeptide with GTP cyclohydrolase I activity having a defined sequence of 202 amino acids given in the specification, optionally with one or more amino acid deletions, insertions or substitutions;

(ii) a polypeptide dihydropteroate synthase activity having a defined sequence of 285 amino acids given in the specification, optionally with one or more amino acid deletions, insertions or substitutions;

(iii) a polypeptide with dihydroneopterin aldolase activity having a defined sequence of 131 amino acids given in the specification, optionally with one or more amino acid deletions, insertions or substitutions; and

(iv) a polypeptide with 2-amino-4-hydroxy-6-hydroxymethyl-dihydropteridine pyrophosphokinase activity having a defined sequence of 160 amino acids given in the specification, optionally with one or more amino acid deletions, insertions or substitutions.

INDEPENDENT CLAIMS are also included for the following:

(1) a polynucleotide encoding one of the polypeptides;

(2) a gene construct comprising at least one copy of the polynucleotide of (1) together with at least one regulatory sequence;

(3) a host organism transformed with the gene construct of (2);

(4) production of folic acid by culturing the organism of (3).

USE - Microorganisms transformed with nucleic acids encoding the polypeptides are useful for producing folic acid, which is used as a nutritional supplement for foods and animals feeds.

Dwg.0/0

FILE SEGMENT: CPI

FIELD AVAILABILITY: AB; DCN

MANUAL CODES: CPI: D03-G01; D03-H01; D05-C09; D05-H12A; D05-H12E; D05-H14A1; D05-H17A3; E06-D09

wo200100802/pn

L2 ANSWER 1 OF 1 WPINDEX COPYRIGHT 2003 THOMSON DERWENT on STN
ACCESSION NUMBER: 2001-072302 [09] WPINDEX
DOC. NO. CPI: C2001-020537
TITLE: New genes from Corynebacterium glutamicum, useful for modifying cells for production of primary or secondary metabolites, e.g. amino or fatty acids.
DERWENT CLASS: B04 D16
INVENTOR(S): HERBSTER, K; MACK, M
PATENT ASSIGNEE(S): (BADI) BASF-LYNX BIOSCIENCE AG
COUNTRY COUNT: 94
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
DE 19929365	A1	20001228	(200109)*		14	C07K014-34
WO 2001000802	A2	20010104	(200109)	GE		C12N015-00 <--
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW						
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW						
AU 2000064289	A	20010131	(200124)			C12N015-00

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 19929365	A1	DE 1999-19929365	19990625
WO 2001000802	A2	WO 2000-EP5853	20000623
AU 2000064289	A	AU 2000-64289	20000623

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2000064289	A Based on	WO 2001000802

PRIORITY APPLN. INFO: DE 1999-19929365 19990625
INT. PATENT CLASSIF.:
MAIN: C07K014-34; C12N015-00
SECONDARY: C12N001-21; C12N015-77
BASIC ABSTRACT:
DE 19929365 A UPAB: 20010213
NOVELTY - A purified polynucleotide (I) has a 693, 1869, 1035, 1002, 1007, 748, 648, 698, 1159, 761, or 791 base pair sequence (S1-11), all fully defined in the specification, and obtained from Corynebacterium glutamicum, is new.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) expression vectors containing (I);
(2) host cells transformed with the vectors of (1); and
(3) production and purification of a polypeptide (II) by culturing cells of (2) and recovering (II) from the culture.
USE - (I), derived from Corynebacterium glutamicum, encode anabolic

and catabolic enzymes involved in the formation of primary and secondary metabolites. They are used to produce genetically modified microorganisms for production of metabolites such as amino or fatty acids, carbohydrates, vitamins and co-factors.

ADVANTAGE - (I) can overcome 'bottle necks' in biosynthesis, and increase the synthetic capacity of microbial systems.

Dwg.0/0

FILE SEGMENT: CPI
FIELD AVAILABILITY: AB; DCN
MANUAL CODES: CPI: B04-E03E; B04-E08; B04-F0100E; B04-N04; D05-C01; D05-C03B; D05-C03D; D05-C03F; D05-C03G; D05-C10; D05-H12A; D05-H12E; D05-H14A1; D05-H17A3